



06/18/12

Technical Report for

XTO Energy

FRU 297-8B

1106-06

Accutest Job Number: D35287

Sampling Date: 06/07/12

Report to:

KRW Consulting, Inc.
8000 West 14th Avenue
Lakewood, CO 80214
cburger@krwconsulting.com; dknudson@krwconsulting.com;
jhess@krwconsulting.com; crachak@krwconsulting.com;
ATTN: Dwayne Knudson

Total number of pages in report: 36



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.


Brad Madadian
Laboratory Director

Client Service contact: Renea Jackson 303-425-6021

Certifications: CO, ID, NE, NM, ND (R-027) (PW), UT (NELAP CO00049), TX (T104704511-12-1)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Case Narrative/Conformance Summary	4
Section 3: Sample Results	5
3.1: D35287-1: CUT 2 MB DAY 4 (6/6/12)	6
Section 4: Misc. Forms	8
4.1: Chain of Custody	9
Section 5: GC Volatiles - QC Data Summaries	11
5.1: Method Blank Summary	12
5.2: Blank Spike Summary	13
5.3: Matrix Spike/Matrix Spike Duplicate Summary	14
Section 6: GC Volatiles - Raw Data	15
6.1: Samples	16
6.2: Method Blanks	21
Section 7: GC Semi-volatiles - QC Data Summaries	26
7.1: Method Blank Summary	27
7.2: Blank Spike Summary	28
7.3: Matrix Spike/Matrix Spike Duplicate Summary	29
Section 8: GC Semi-volatiles - Raw Data	30
8.1: Samples	31
8.2: Method Blanks	34



Sample Summary

XTO Energy

Job No: D35287

FRU 297-8B

Project No: 1106-06

Sample Number	Collected		Matrix Code Type	Client Sample ID
	Date	Time By	Received	
D35287-1	06/07/12	14:20 CB	06/09/12 SO	CUT 2 MB DAY 4 (6/6/12)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



CASE NARRATIVE / CONFORMANCE SUMMARY

Client: XTO Energy

Job No D35287

Site: FRU 297-8B

Report Date 6/15/2012 4:08:26 PM

On 06/09/2012, 1 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 4.0 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D35287 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GC By Method SW846 8015B

Matrix SO

Batch ID: GGB906

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D35276-12MS, D35276-12MSD were used as the QC samples indicated.

Extractables by GC By Method SW846-8015B

Matrix SO

Batch ID: OP6047

- All samples were extracted and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D35286-2MS, D35286-2MSD were used as the QC samples indicated.

Wet Chemistry By Method SM19 2540B M

Matrix SO

Batch ID: GN15369

- The data for SM19 2540B M meets quality control requirements.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Page 1 of 1

Client Sample ID:	CUT 2 MB DAY 4 (6/6/12)	
Lab Sample ID:	D35287-1	Date Sampled: 06/07/12
Matrix:	SO - Soil	Date Received: 06/09/12
Method:	SW846 8015B	Percent Solids: 90.4
Project:	FRU 297-8B	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB16308.D	1	06/11/12	SK	n/a	n/a	GGB906
Run #2							

Run #	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	12	6.1	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	103%		60-140%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Page 1 of 1

Client Sample ID:	CUT 2 MB DAY 4 (6/6/12)			Date Sampled:	06/07/12
Lab Sample ID:	D35287-1			Date Received:	06/09/12
Matrix:	SO - Soil			Percent Solids:	90.4
Method:	SW846-8015B SW846 3546				
Project:	FRU 297-8B				

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FD14253.D	1	06/14/12	AV	06/13/12	OP6047	GFD750
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	127	7.4	4.8	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	71%		43-136%		

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D35287

Client: KRW CONSULTING

Immediate Client Services Action Required: No

Date / Time Received: 6/9/2012 9:15:00 AM

No. Coolers: 1

Client Service Action Required at Login: No

Project: XTO FRU 297-8B

Airbill #'s: FedEx

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Cooler temp verification:			Infrared gun
3. Cooler media:			Ice (bag)

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input type="checkbox"/>	
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input type="checkbox"/>	
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:			Intact

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume rec'd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

GC Volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 1

Job Number: D35287
Account: XTOKRWR XTO Energy
Project: FRU 297-8B

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB906-MB	GB16294.D	1	06/11/12	SK	n/a	n/a	GGB906

The QC reported here applies to the following samples:

Method: SW846 8015B

D35287-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	10	5.0	mg/kg	

CAS No.	Surrogate Recoveries	Limits
120-82-1	1,2,4-Trichlorobenzene	104% 60-140%

Blank Spike Summary

Page 1 of 1

Job Number: D35287
Account: XTOKRWR XTO Energy
Project: FRU 297-8B

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB906-BS	GB16295.D	1	06/11/12	SK	n/a	n/a	GGB906

The QC reported here applies to the following samples:

Method: SW846 8015B

D35287-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	110	123	112	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	121%	60-140%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: D35287
Account: XTOKRWR XTO Energy
Project: FRU 297-8B

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D35276-12MS	GB16297.D	1	06/11/12	SK	n/a	n/a	GGB906
D35276-12MSD	GB16298.D	1	06/11/12	SK	n/a	n/a	GGB906
D35276-12	GB16296.D	1	06/11/12	SK	n/a	n/a	GGB906

The QC reported here applies to the following samples:

Method: SW846 8015B

D35287-1

CAS No.	Compound	D35276-12 mg/kg	Spike Q	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND	170	184	108	194	114	5	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D35276-12	Limits
120-82-1	1,2,4-Trichlorobenzene	108%	110%	103%	60-140%

GC Volatiles

Raw Data



Judy Melson
06/12/12 09:24

Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\061112\GB16308.D\FID1A.CH Vial: 19
Signal #2 : Y:\1\DATA\061112\GB16308.D\FID2B.CH
Acq On : 11 Jun 2012 9:05 pm Operator: StephK
Sample : D35287-1, 50X Inst : GC/MS Ins
Misc : GC2904,GGB906,5.008,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Jun 12 08:46:12 2012 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Tue Jun 12 08:45:42 2012
Response via : Initial Calibration
DataAcq Meth : TVB4.M

Volume Inj. :
Signal #1 Phase : DB-624 Signal #2 Phase: DB-624
Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm

Compound		R.T.	Response	Conc	Units

System Monitoring Compounds					
2) S	1,2,4-Trichlorobenzene	14.33	3239670	103.391 %	m
10) S	1,2,4-Trichlorobenzene (P)	14.33	18808000	115.722 %	
Target Compounds					
1) H	TVH-Gasoline	7.23	6641628	<MDL	mg/L
4) T	Methyl-t-butyl-ether	0.00	0	N.D.	ug/L d
5) T	Benzene	0.00	0	N.D.	ug/L d
6) T	Toluene	7.61	377147	0.952	ug/L
7) T	Ethylbenzene	10.25	126448	0.374	ug/L
8) T	m,p-Xylene	10.43	510230	1.024	ug/L
9) T	o-Xylene	0.00	0	N.D.	ug/L d
11) T	Naphthalene	14.52	662256	3.356	ug/L

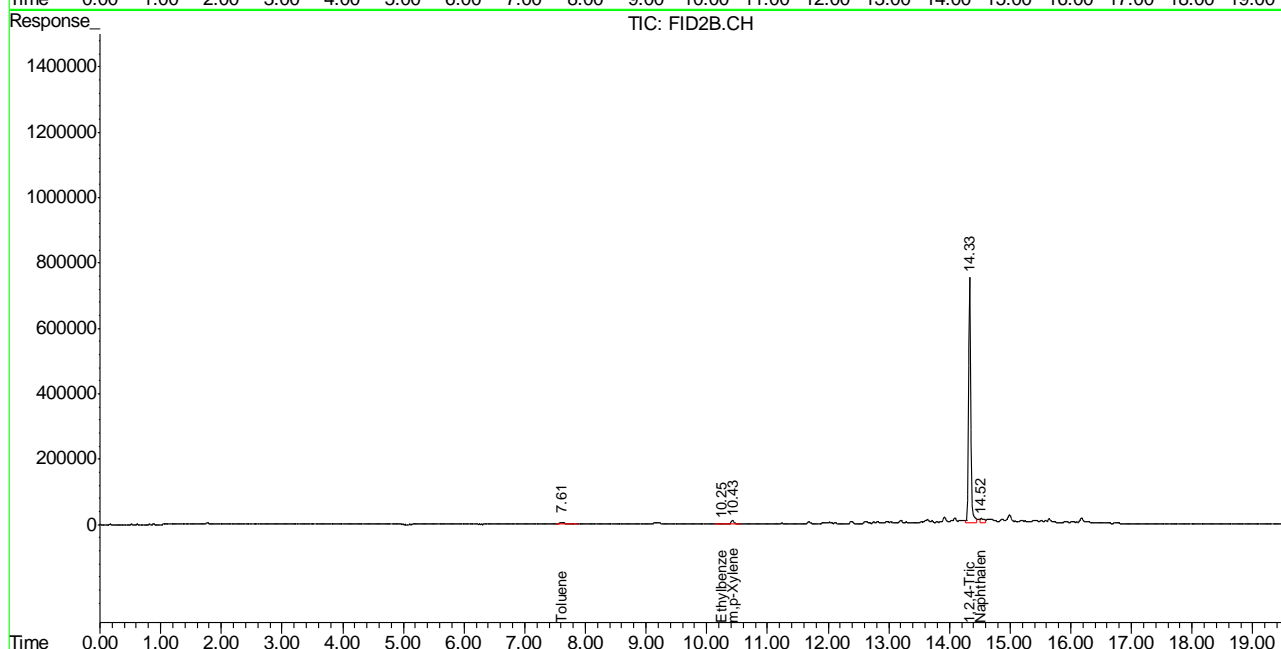
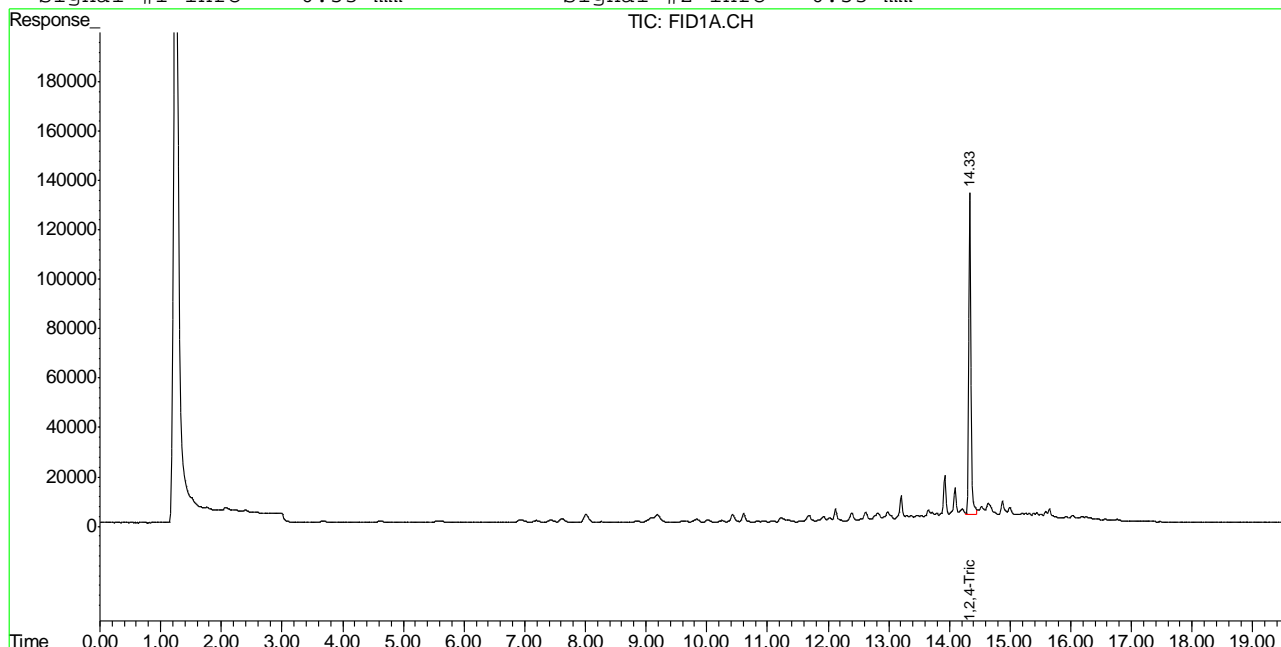
(f)=RT Delta > 1/2 Window (m)=manual int.
GB16308.D TB868GB868SOIL.M Tue Jun 12 08:50:41 2012 GC

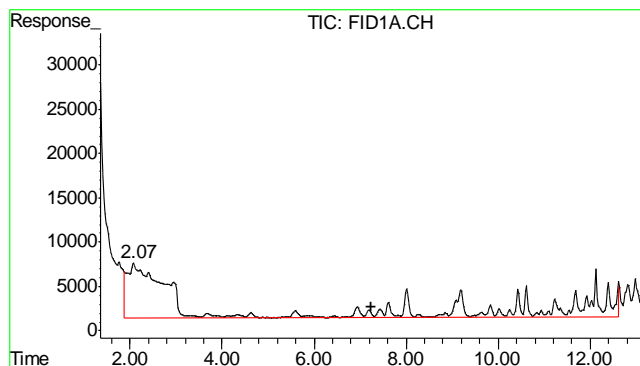
Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\061112\GB16308.D\FID1A.CH Vial: 19
 Signal #2 : Y:\1\DATA\061112\GB16308.D\FID2B.CH
 Acq On : 11 Jun 2012 9:05 pm Operator: StephK
 Sample : D35287-1, 50X Inst : GC/MS Ins
 Misc : GC2904,GGB906,5.008,,100,5,1 Multiplr: 1.00
 IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
 Quant Time: Jun 12 7:51 2012 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
 Title : 8015B/8021B TVH/BTEX
 Last Update : Tue Jun 12 08:45:42 2012
 Response via : Multiple Level Calibration
 DataAcq Meth : TVB4.M

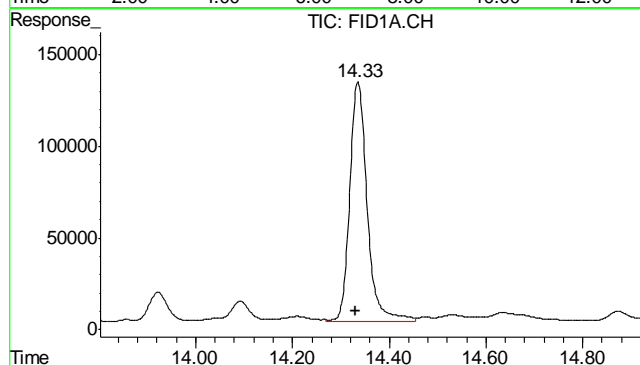
Volume Inj. :
 Signal #1 Phase : DB-624 Signal #2 Phase: DB-624
 Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm





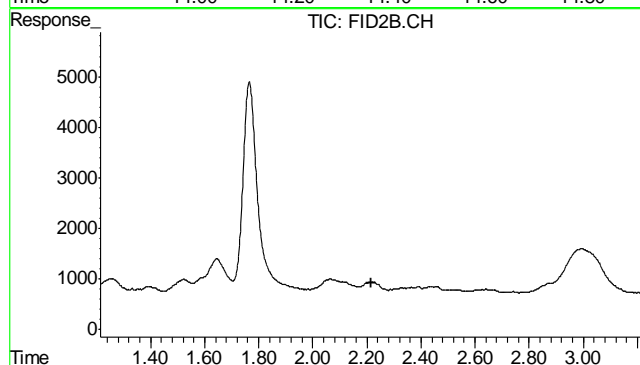
#1 TVH-Gasoline

R.T.: 7.230 min
Delta R.T.: 0.000 min
Response: 6641628
Conc: N.D.



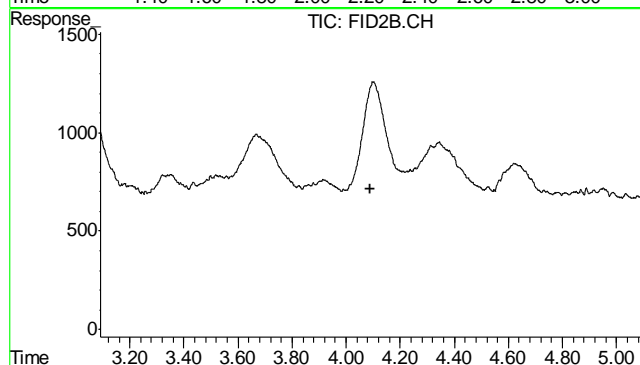
#2 1,2,4-Trichlorobenzene

R.T.: 14.335 min
Delta R.T.: 0.003 min
Response: 3239670
Conc: 103.39 % m



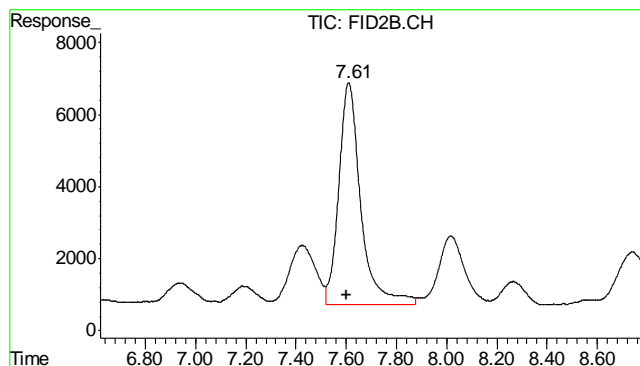
#4 Methyl-t-butyl-ether

R.T.: 0.000 min
Exp R.T.: 2.215 min
Response: 0
Conc: N.D.



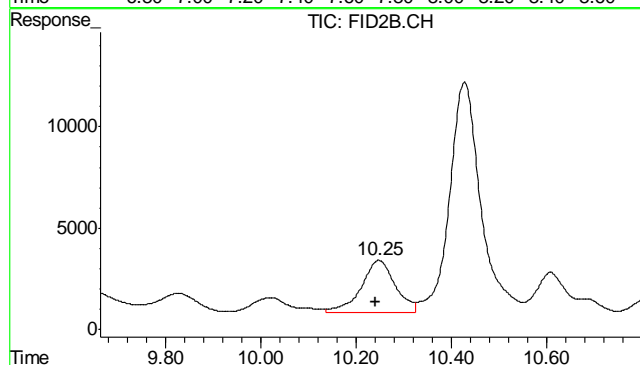
#5 Benzene

R.T.: 0.000 min
Exp R.T.: 4.090 min
Response: 0
Conc: N.D.



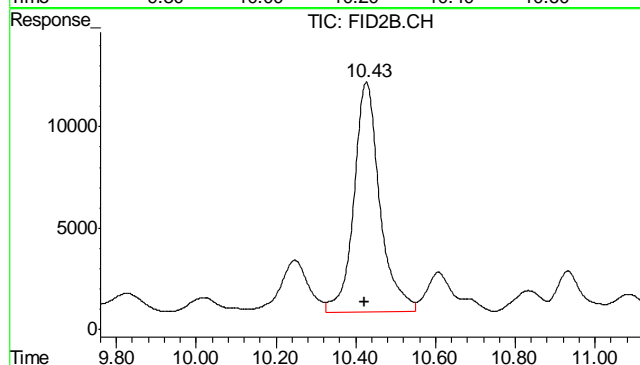
#6 Toluene

R.T.: 7.610 min
Delta R.T.: 0.008 min
Response: 377147
Conc: 0.95 ug/L



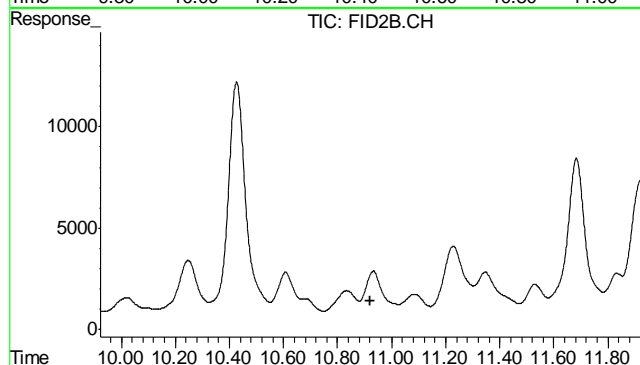
#7 Ethylbenzene

R.T.: 10.247 min
Delta R.T.: 0.007 min
Response: 126448
Conc: 0.37 ug/L



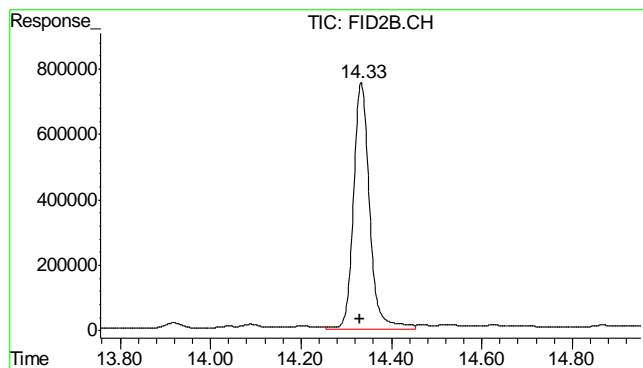
#8 m,p-Xylene

R.T.: 10.427 min
Delta R.T.: 0.005 min
Response: 510230
Conc: 1.02 ug/L



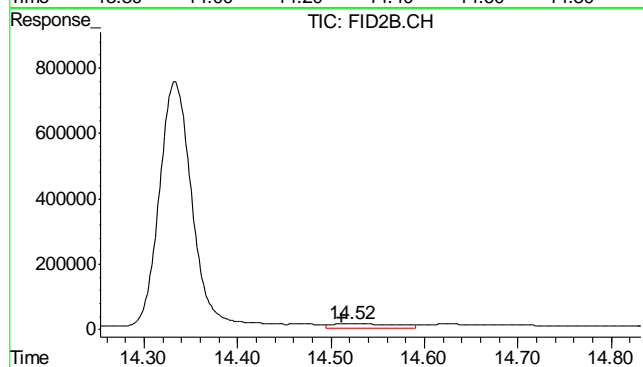
#9 o-Xylene

R.T.: 0.000 min
Exp R.T.: 10.922 min
Response: 0
Conc: N.D.



#10 1,2,4-Trichlorobenzene (P)

R.T.: 14.333 min
Delta R.T.: 0.004 min
Response: 18808000
Conc: 115.72 %



#11 Naphthalene

R.T.: 14.523 min
Delta R.T.: 0.012 min
Response: 662256
Conc: 3.36 ug/L

6.1.1

6

Judy Melson
06/12/12 09:24

Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\061112\GB16294.D\FID1A.CH Vial: 5
Signal #2 : Y:\1\DATA\061112\GB16294.D\FID2B.CH
Acq On : 11 Jun 2012 12:51 pm Operator: StephK
Sample : MB Inst : GC/MS Ins
Misc : GC2904,GGB906,5.000,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Jun 11 13:08:10 2012 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Mon Jun 11 13:03:48 2012
Response via : Initial Calibration
DataAcq Meth : TVB4.M

Volume Inj. :
Signal #1 Phase : DB-624 Signal #2 Phase: DB-624
Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm

Compound		R.T.	Response	Conc	Units

System Monitoring Compounds					
2) S	1,2,4-Trichlorobenzene	14.35	3244057	103.531 %	m
10) S	1,2,4-Trichlorobenzene (P)	14.34	18276099	112.449 %	
Target Compounds					
1) H	TVH-Gasoline	7.23	4675842	<MDL	mg/L
4) T	Methyl-t-butyl-ether	0.00	0	N.D.	ug/L d
5) T	Benzene	0.00	0	N.D.	ug/L d
6) T	Toluene	7.63	181555	0.458	ug/L
7) T	Ethylbenzene	0.00	0	N.D.	ug/L d
8) T	m,p-Xylene	10.44	181324	0.123	ug/L
9) T	o-Xylene	0.00	0	N.D.	ug/L d
11) T	Naphthalene	14.52	215354	1.091	ug/L

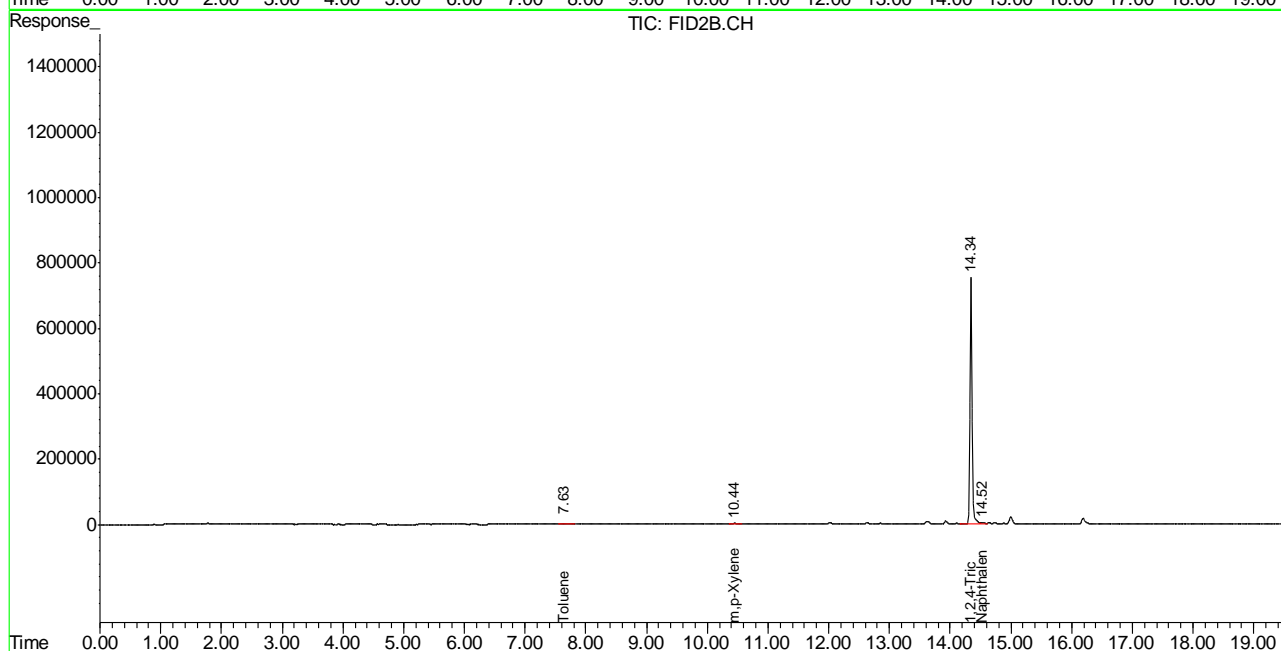
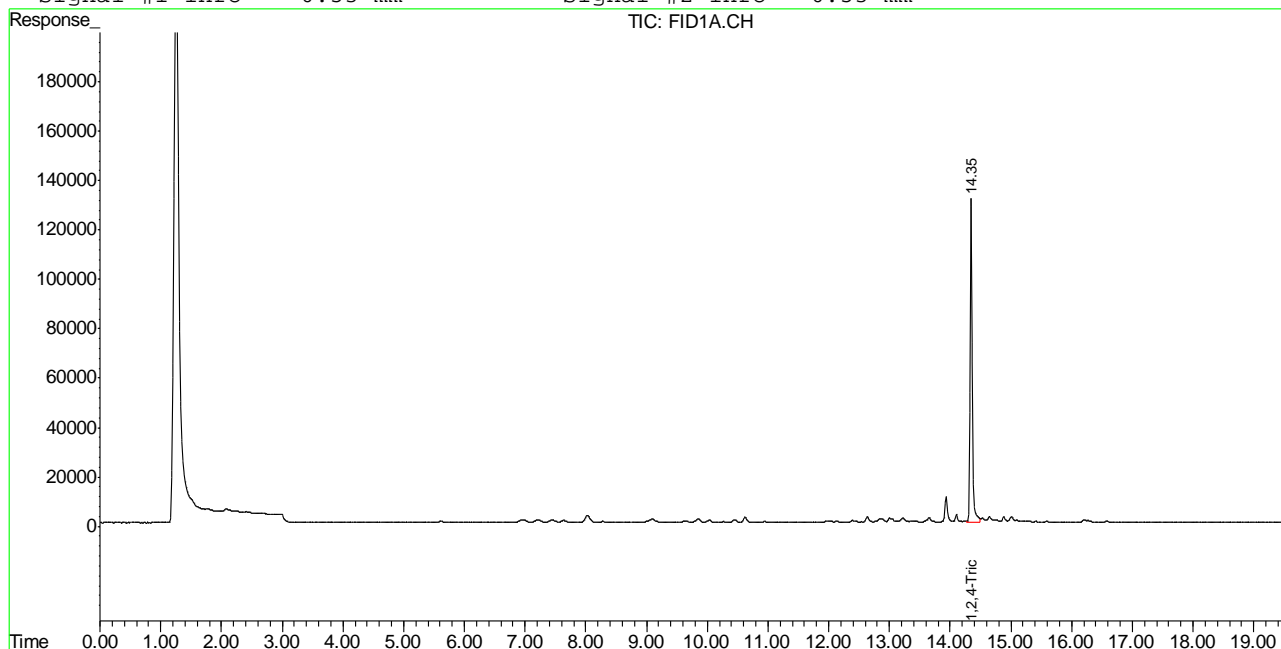
(f)=RT Delta > 1/2 Window (m)=manual int.
GB16294.D TB868GB868SOIL.M Tue Jun 12 08:49:59 2012 GC

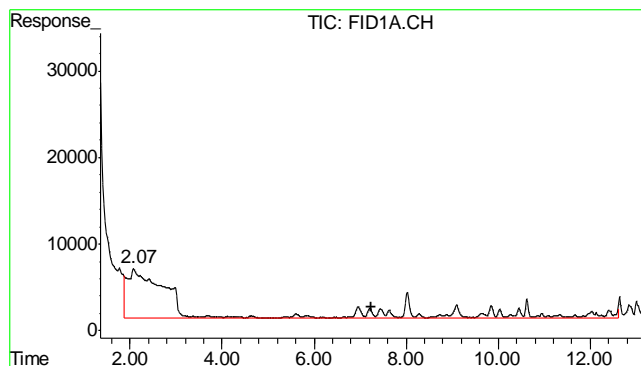
Quantitation Report (QT Reviewed)

Signal #1 : Y:\1\DATA\061112\GB16294.D\FID1A.CH Vial: 5
Signal #2 : Y:\1\DATA\061112\GB16294.D\FID2B.CH
Acq On : 11 Jun 2012 12:51 pm Operator: StephK
Sample : MB Inst : GC/MS Ins
Misc : GC2904,GGB906,5.000,,100,5,1 Multiplr: 1.00
IntFile Signal #1: TVH1.E IntFile Signal #2: FB2.E
Quant Time: Jun 11 12:11 2012 Quant Results File: TB868GB868SOIL.RES

Quant Method : C:\MSDCHEM\1...\TB868GB868SOIL.M (Chemstation Integrator)
Title : 8015B/8021B TVH/BTEX
Last Update : Mon Jun 11 13:03:48 2012
Response via : Multiple Level Calibration
DataAcq Meth : TVB4.M

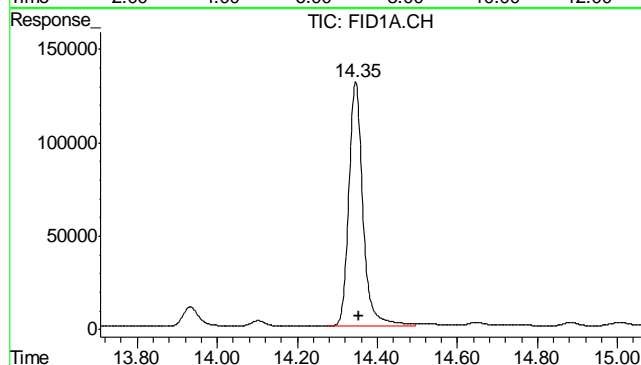
Volume Inj. :
Signal #1 Phase : DB-624 Signal #2 Phase: DB-624
Signal #1 Info : 0.53 mm Signal #2 Info : 0.53 mm





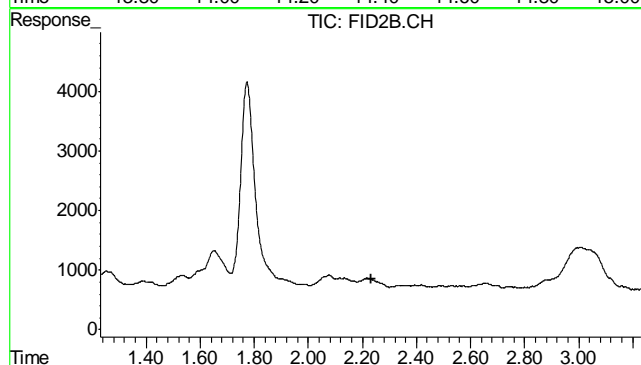
#1 TVH-Gasoline

R.T.: 7.230 min
Delta R.T.: 0.000 min
Response: 4675842
Conc: N.D.



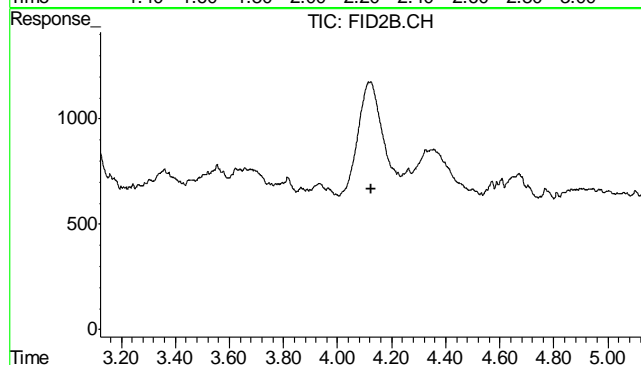
#2 1,2,4-Trichlorobenzene

R.T.: 14.345 min
Delta R.T.: -0.008 min
Response: 3244057
Conc: 103.53 % m



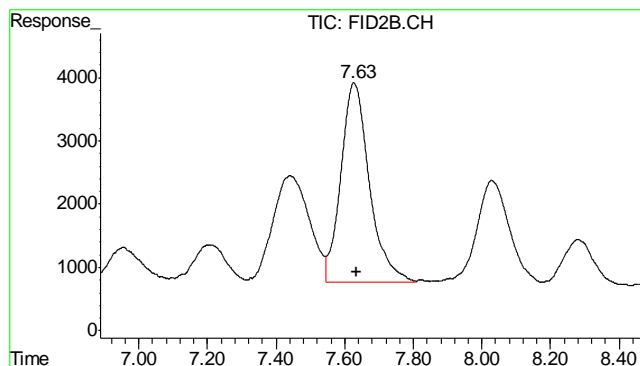
#4 Methyl-t-butyl-ether

R.T.: 0.000 min
Exp R.T.: 2.231 min
Response: 0
Conc: N.D.



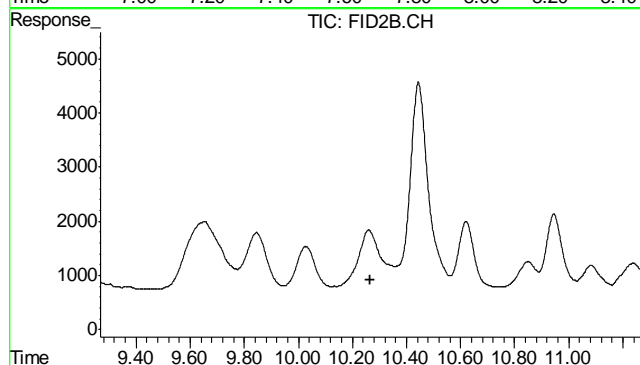
#5 Benzene

R.T.: 0.000 min
Exp R.T.: 4.123 min
Response: 0
Conc: N.D.



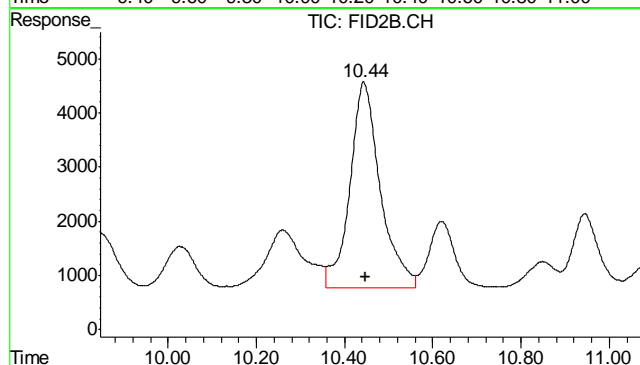
#6 Toluene

R.T.: 7.627 min
Delta R.T.: -0.009 min
Response: 181555
Conc: 0.46 ug/L



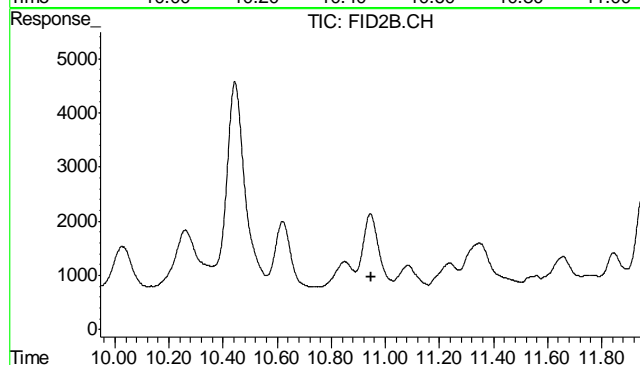
#7 Ethylbenzene

R.T.: 0.000 min
Exp R.T.: 10.267 min
Response: 0
Conc: N.D.



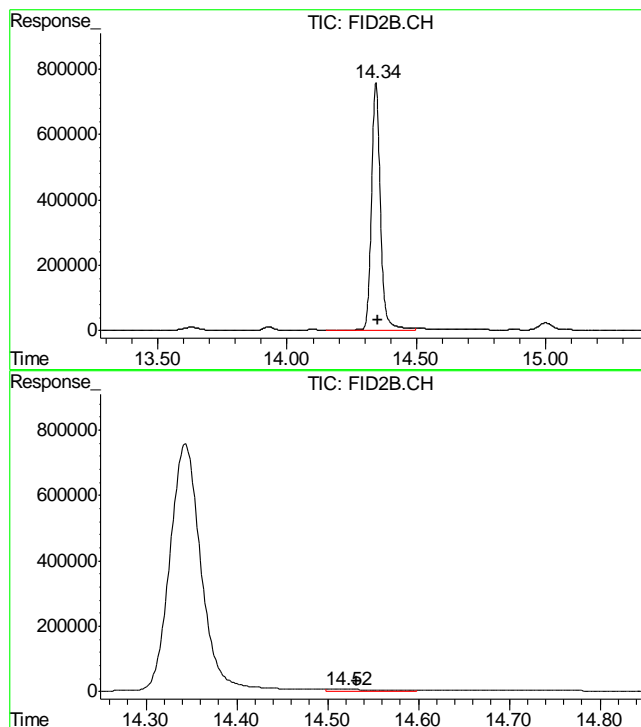
#8 m,p-Xylene

R.T.: 10.444 min
Delta R.T.: -0.004 min
Response: 181324
Conc: 0.12 ug/L



#9 o-Xylene

R.T.: 0.000 min
Exp R.T.: 10.946 min
Response: 0
Conc: N.D.



#10 1,2,4-Trichlorobenzene (P)

R.T.: 14.344 min
Delta R.T.: -0.007 min
Response: 18276099
Conc: 112.45 %

#11 Naphthalene

R.T.: 14.521 min
Delta R.T.: -0.011 min
Response: 215354
Conc: 1.09 ug/L

6.2.1

6

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 1

Job Number: D35287
Account: XTOKRWR XTO Energy
Project: FRU 297-8B

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP6047-MB	FD14227.D	1	06/14/12	AV	06/13/12	OP6047	GFD750

The QC reported here applies to the following samples:

Method: SW846-8015B

D35287-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	6.7	4.3	mg/kg	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	79% 43-136%

Blank Spike Summary

Page 1 of 1

Job Number: D35287
Account: XTOKRWR XTO Energy
Project: FRU 297-8B

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP6047-BS	FD14229.D	1	06/14/12	AV	06/13/12	OP6047	GFD750

The QC reported here applies to the following samples:

Method: SW846-8015B

D35287-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	667	417	63	58-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	70%	43-136%

7.2.1

7

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D35287
Account: XTOKRWR XTO Energy
Project: FRU 297-8B

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP6047-MS	FD14231.D	1	06/14/12	AV	06/13/12	OP6047	GFD750
OP6047-MSD	FD14233.D	1	06/14/12	AV	06/13/12	OP6047	GFD750
D35286-2	FD14235.D	1	06/14/12	AV	06/13/12	OP6047	GFD750

The QC reported here applies to the following samples: Method: SW846-8015B

D35287-1

CAS No.	Compound	D35286-2 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	7.99		756	450	58	370	48	20	20-183/43
CAS No.	Surrogate Recoveries	MS		MSD		D35286-2	Limits			
84-15-1	o-Terphenyl	65%		59%		70%	43-136%			

7.3.1
7

GC Semi-volatiles

Raw Data



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\2012\JUNE\FD061412\FD14253.D Vial: 16
Acq On : 6-14-2012 06:40:25 PM Operator: ashleyv
Sample : D35287-1 Inst : FID5
Misc : OP6047,GFD750,30.00,,,1,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Jun 15 08:56:04 2012 Quant Results File: DRO-GFD740F.RES

Quant Method : C:\MSDCHEM\2...\DRO-GFD740F.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Mon Jun 11 09:22:41 2012
Response via : Initial Calibration
DataAcq Meth : DRODUAL.M

Volume Inj. : 1ul
Signal Phase : RTX-5
Signal Info : 530um

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
1) S O-Terphenyl	9.34	67031002	1424.349 mg/L m
Target Compounds			
2) H TPH-DRO (c10-c28)	7.19	146951917	3437.633 mg/L

8.1.1

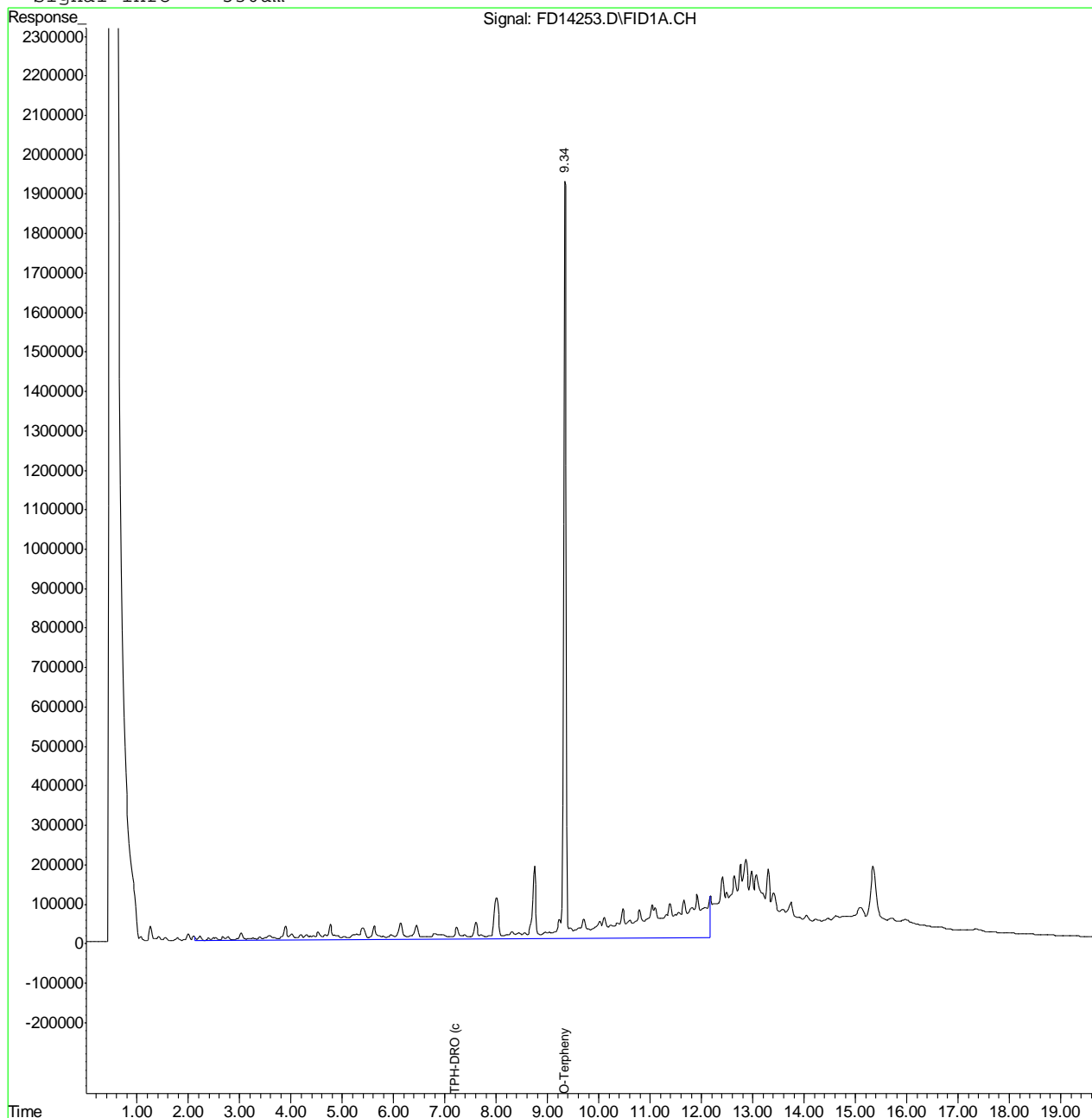
8

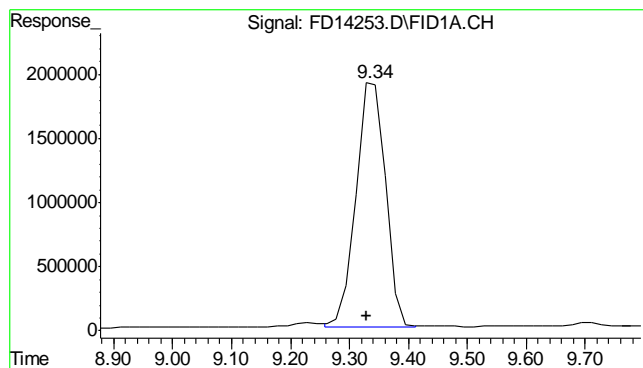
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\2012\JUNE\FD061412\FD14253.D Vial: 16
Acq On : 6-14-2012 06:40:25 PM Operator: ashleyv
Sample : D35287-1 Inst : FID5
Misc : OP6047,GFD750,30.00,,,1,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Jun 15 8:57 2012 Quant Results File: DRO-GFD740F.RES

Quant Method : C:\MSDCHEM\2...\DRO-GFD740F.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Mon Jun 11 09:22:41 2012
Response via : Multiple Level Calibration
DataAcq Meth : DRODUAL.M

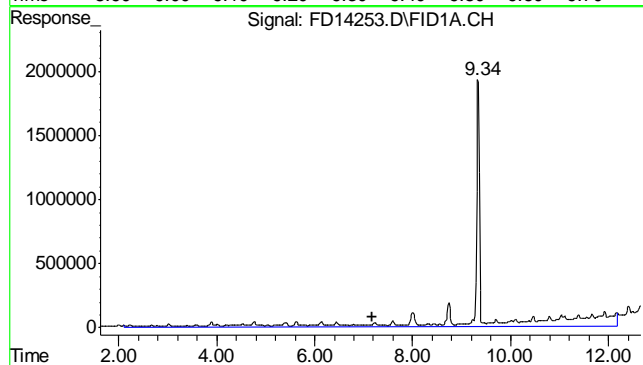
Volume Inj. : 1ul
Signal Phase : RTX-5
Signal Info : 530um





#1 O-Terphenyl

R.T.: 9.336 min
 Delta R.T.: 0.006 min
 Response: 67031002
 Conc: 1424.35 mg/L m



#2 TPH-DRO (c10-c28)

R.T.: 7.190 min
 Delta R.T.: 0.000 min
 Response: 146951917
 Conc: 3437.63 mg/L m

8.1.1

8

Judy Melson
06/15/12 10:37

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\2012\JUNE\FD061412\FD14227.D Vial: 3
Acq On : 14 Jun 2012 12:48 pm Operator: ashleyv
Sample : OP6047-MB Inst : FID5
Misc : OP6047,GFD750,30.00,,,1,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Jun 14 15:34:59 2012 Quant Results File: DRO-GFD740F.RES

Quant Method : C:\MSDCHEM\2...\DRO-GFD740F.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Mon Jun 11 09:22:41 2012
Response via : Initial Calibration
DataAcq Meth : DRODUAL.M

Volume Inj. : 1ul
Signal Phase : RTX-5
Signal Info : 530um

Compound	R.T.	Response	Conc Units

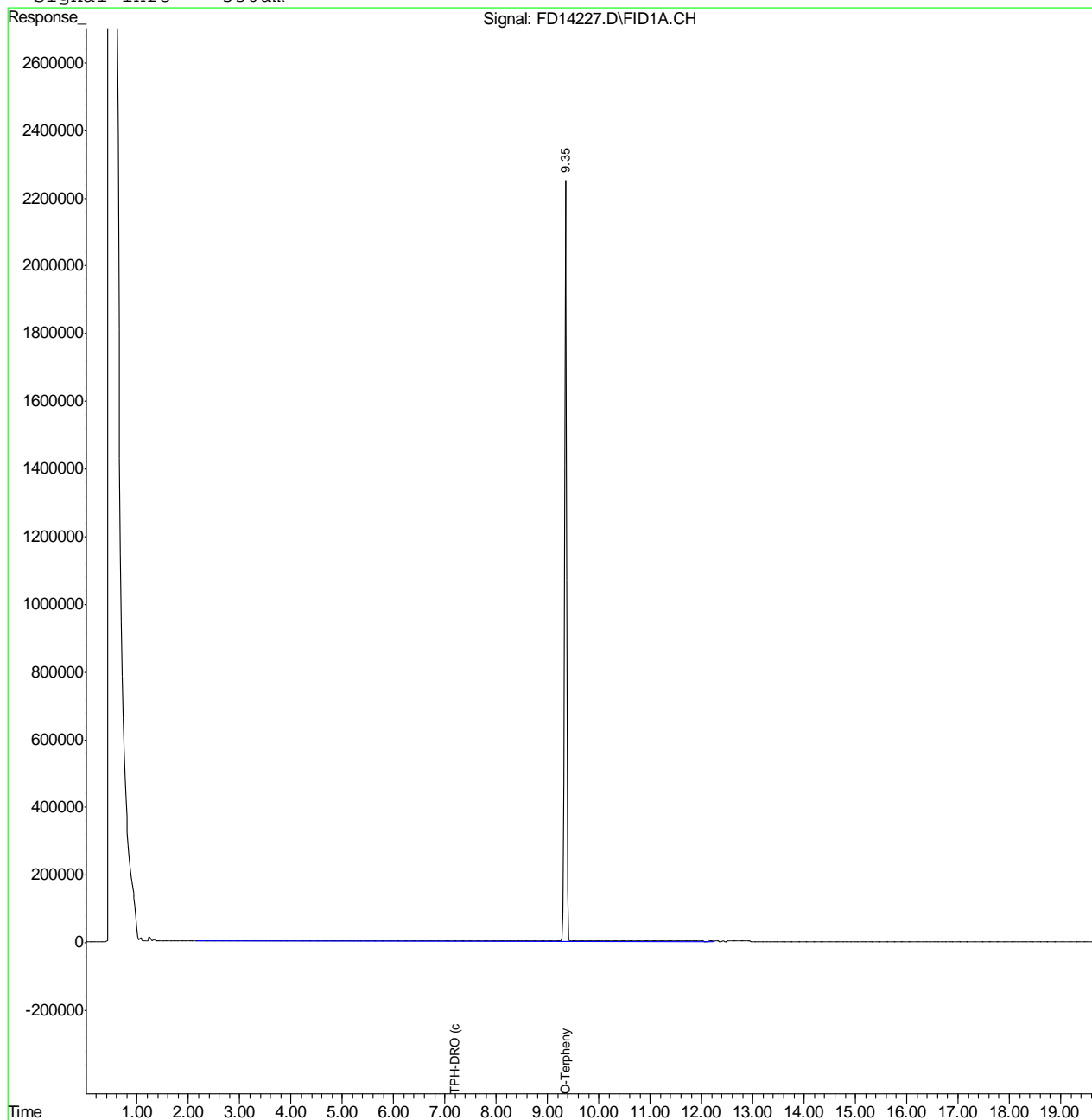
System Monitoring Compounds			
1) S O-Terphenyl	9.35	74347937	1579.827 mg/L m
Target Compounds			
2) H TPH-DRO (c10-c28)	7.19	2239439	52.387 mg/L

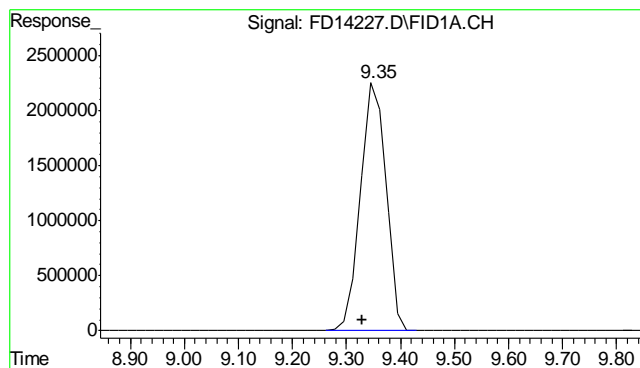
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\2\DATA\2012\JUNE\FD061412\FD14227.D Vial: 3
Acq On : 14 Jun 2012 12:48 pm Operator: ashleyv
Sample : OP6047-MB Inst : FID5
Misc : OP6047,GFD750,30.00,,,1,1 Multiplr: 1.00
IntFile : autoint1.e
Quant Time: Jun 14 15:35 2012 Quant Results File: DRO-GFD740F.RES

Quant Method : C:\MSDCHEM\2...\DRO-GFD740F.M (Chemstation Integrator)
Title : 8015B TEH
Last Update : Mon Jun 11 09:22:41 2012
Response via : Multiple Level Calibration
DataAcq Meth : DRODUAL.M

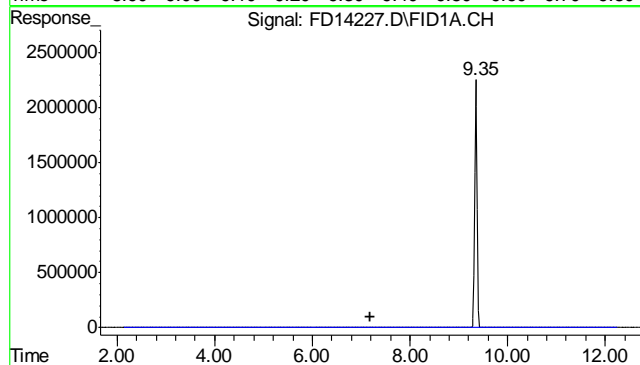
Volume Inj. : 1ul
Signal Phase : RTX-5
Signal Info : 530um





#1 O-Terphenyl

R.T.: 9.349 min
Delta R.T.: 0.019 min
Response: 74347937
Conc: 1579.83 mg/L m



#2 TPH-DRO (c10-c28)

R.T.: 7.190 min
Delta R.T.: 0.000 min
Response: 2239439
Conc: 52.39 mg/L m

8.2.1

8